

Represent a real-life situation by writing a single-step expression that includes a variable  
(6.EE.6)

1. **My brother owns a lot of books, and this weekend he bought three more!**

|                        |        |
|------------------------|--------|
| Books He Already Owned | 3 More |
|------------------------|--------|

|   |   |
|---|---|
| x | 3 |
|---|---|

- Why do we need to use the variable "x" to represent the number of books he already owned?
  - Which operation would be used if he bought three more? (addition, subtraction, multiplication, or division)
  - What expression could be used for the total number of books he owns now?
2. **Lucas's little sister is half of his height.**
- Draw a picture, tape diagram, or number line that represents this situation.
  - Decide on a variable and define it.
  - What expression could be used to represent the situation?

3. **Alicia has a bin of strawberries in her refrigerator. She got hungry and ate six of them.**

a. What information is known in this situation?

b. What information is unknown?

c. Decide on a variable and define it.

f. Write an expression to match the situation.

4. **A student wrote an expression,  $x \div 5$ .**

a. Write a situation that this expression could represent.

b. Define the variable.

c. Draw a visual model to show the situation.

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|    | Situation   | Definition of variable<br>with Unit | Operation | Strategy | Expression |
|----|---|-------------------------------------|-----------|----------|------------|
| 1. | I split my rock collection into four plastic bins.      |                                     |           |          |            |
| 2. | I gave away five books this week to my friends.         |                                     |           |          |            |
| 3. | Baby Juice ate three times as many hot dogs as his mom. |                                     |           |          |            |
| 4. | Amirah at half as many Hershey's Kisses as Elisha       |                                     |           |          |            |